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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/986,119

DATE: 06/03/2002

TIME: 10:33:27

Input Set : N:\Crf3\RULE60\09986119.raw
Output Set: N:\CRF3\06032002\I986119.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Rybak, Susanna M.
6 Newton, Dianne L.

7 Goldenberg, David M.

9 (ii) TITLE OF INVENTION: Immunotoxins Directed Against Malignant
10 Cells

12 (iii) NUMBER OF SEQUENCES: 3

14 (iv) CORRESPONDENCE ADDRESS:

15 (A) ADDRESSEE: Townsend and Townsend and Crew LLP

16 (B) STREET: Two Embarcadero Center, Eighth Floor

17 (C) CITY: San Francisco

18 (D) STATE: California

19 (E) COUNTRY: USA

20 (F) ZIP: 94111-3834

22 (v) COMPUTER READABLE FORM:

23 (A) MEDIUM TYPE: Floppy disk

24 (B) COMPUTER: IBM PC compatible

25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

28 (vi) CURRENT APPLICATION DATA:

29 (A) APPLICATION NUMBER: US/09/986,119

30 (B) FILING DATE: 07-Nov-2001

31 (C) CLASSIFICATION:

33 (vii) PRIOR APPLICATION DATA:

35 (A) APPLICATION NUMBER: US/09/071,672

36 (B) FILING DATE: 01-MAY-1998

38 (A) APPLICATION NUMBER: US 60/046,895

39 (B) FILING DATE: 02-MAY-1997

41 (viii) ATTORNEY/AGENT INFORMATION:

42 (A) NAME: Weber, Ellen Lauver

43 (B) REGISTRATION NUMBER: 32,762

44 (C) REFERENCE/DOCKET NUMBER: 015280-32510US

46 (ix) TELECOMMUNICATION INFORMATION:

47 (A) TELEPHONE: (415) 576-0200

48 (B) TELEFAX: (415) 576-0300

51 (2) INFORMATION FOR SEQ ID NO: 1:

53 (i) SEQUENCE CHARACTERISTICS:

54 (A) LENGTH: 104 amino acids

55 (B) TYPE: amino acid

56 (C) STRANDEDNESS:

57 (D) TOPOLOGY: linear

59 (ii) MOLECULE TYPE: protein

ENTERED

6/3/02

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62 (ix) FEATURE:
63 (A) NAME/KEY: Modified-site
64 (B) LOCATION: 1
65 (D) OTHER INFORMATION: /product= "OTHER"
66 /note= "Xaa = Glu or pyroglutamic acid"
68 (ix) FEATURE:
69 (A) NAME/KEY: Protein
70 (B) LOCATION: 1..104
71 (D) OTHER INFORMATION: /note= "RNase A derived from
72 Rana pipiens, "onc protein"
75 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
W--> 77 Xaa Asp Trp Leu Thr Phe Gln Lys Lys His Ile Thr Asn Thr Arg Asp
78 1 5 10 15
80 Val Asp Cys Asp Asn Ile Met Ser Thr Asn Leu Phe His Cys Lys Asp
81 20 25 30
83 Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile Cys
84 35 40 45
86 Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe Tyr
87 50 55 60
89 Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu Lys
90 65 70 75 80
92 Lys Ser Thr Asn Lys Phe Cys Val Thr Cys Glu Asn Gln Ala Pro Val
93 85 90 95
95 His Phe Val Gly Val Gly Ser Cys
96 100
99 (2) INFORMATION FOR SEQ ID NO: 2:
101 (i) SEQUENCE CHARACTERISTICS:
102 (A) LENGTH: 249 base pairs
103 (B) TYPE: nucleic acid
104 (C) STRANDEDNESS: single
105 (D) TOPOLOGY: linear
W--> 107 (ii) MOLECULE TYPE: DNA
110 (ix) FEATURE:
111 (A) NAME/KEY: -
112 (B) LOCATION: 1..249
113 (D) OTHER INFORMATION: /note= "nucleic acid encoding
114 "onc protein""
117 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
119 GATGTTGATT GTGATAATAT CATGTCAACA AACTTGTTCC ACTGCAAGGA CAAGAACACT 60
120 TTTATCTATT CACGTCCTGA GCCAGTGAAG GCCATCTGTA AAGGAATTAT AGCCTCCAAA 120
121 AATGTGTTAA CTACCTCTGA GTTTATCTC TCTGATTGCA ATGTAACAAG CAGGCCTTGC 180
123 AAGTATAAAT TAAAGAACATC AACTAATAAA TTTTGTGTAA CTTGTGAAAA TCAGGCACCA 240
125 249
127 GTTCATTTT
130 (2) INFORMATION FOR SEQ ID NO: 3:
132 (i) SEQUENCE CHARACTERISTICS:
133 (A) LENGTH: 83 amino acids
134 (B) TYPE: amino acid
135 (C) STRANDEDNESS:
136 (D) TOPOLOGY: linear

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138 (ii) MOLECULE TYPE: protein
141 (ix) FEATURE:
142 (A) NAME/KEY: Protein
143 (B) LOCATION: 1..83
144 (D) OTHER INFORMATION: /note= "onc protein", positions 16-98
145 of SEQ ID NO:1"
148 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
150 Asp Val Asp Cys Asp Asn Ile Met Ser Thr Asn Leu Phe His Cys Lys
151 1 5 10 15
153 Asp Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile
154 20 25 30
156 Cys Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe
157 35 40 45
159 Tyr Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu
160 50 55 60
162 Lys Lys Ser Thr Asn Lys Phe Cys Val Thr Cys Glu Asn Gln Ala Pro
163 65 70 75 80
165 Val His Phe

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos.1

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/986,119

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Input Set : N:\Crf3\RULE60\09986119.raw
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L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

L:107 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2